MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ADVANTAGE
24-hr Emergency #: (800) 424-9300
US D.O.T. Hazardous Materials Registration No.:062504-001-008MO
Commercial & Government Entity (CAGE) Code: 0YCK6

CHEMICAL NAMES & SYNONYMS: N/A
FORMULA: Proprietary
CHEMICAL FAMILY: Blended alkaline compound
SUPPLIER'S NAME: Fabriclean Supply of Kansas, LC
SUPPLIER'S ADDRESS: 14400 W. 97th Terrace
SUPPLIER'S CITY, STATE, ZIP: Lenexa, Ks. 66215
SUPPLIER'S TELEPHONE: (800) 832-0096

SECTION 2 - INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>PERCENT</th>
<th>ADOPTED VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium phosphate, tribasic CAS # 75585-29-4</td>
<td></td>
<td>TWA - 10 mg/m³ for total dust containing no asbestos and &lt; 1% triphosphoric acid, pentasodium salt crystalline silica. OSHA - same</td>
</tr>
<tr>
<td>Sodium carbonate CAS # 497-19-8</td>
<td></td>
<td>TWA - 10 mg/m³ for total dust containing no asbestos and &lt; 1% crystalline silica. OSHA - same.</td>
</tr>
<tr>
<td>Sodium metasilicate, silicic acid, disodium salt CAS # 6834-92-0</td>
<td>N/E - treat as sodium hydroxide. ACGIH TLVs: Ceiling 2 mg/m³. NIOSH RELs: Ceiling 2 mg/m³.</td>
<td></td>
</tr>
<tr>
<td>Sodium percarbonate CAS # 15630-89-4</td>
<td>N/E - ACGIH TLVs: 10 mg/m³ (total dust) or 5 mg/m³ (respirable dust). OSHA TLVs: 15 mg/m³ (total dust) 5 mg/m³ (respirable dust).</td>
<td></td>
</tr>
</tbody>
</table>

(Note: The exact composition of this product, with respect to the percentages of its' reported ingredients and the presence of its' non-regulated ingredients [not reported], is proprietary information and is being withheld. In the event of a medical emergency, total disclosure will be made to the proper authorities.)

SECTION 3 - HEALTH HAZARDS IDENTIFICATION

Threshold Limit Value: As indicated in Section 2 (above).

Primary Routes of Entry: Eye/skin contact. Inhalation. Ingestion.

EFFECTS OF OVEREXPOSURE: ACUTE: Corrosive to all body tissues with which it comes in contact. The effect of local dermal exposure may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness. These effects occur only when the TLV is exceeded.

SUPPLEMENTAL HEALTH INFORMATION: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

SECTION 4 - FIRST AID MEASURES

EYES: Object is to flush material out of eyes immediately, then seek medical attention. Immediately flush with plenty of water for at least 15 minutes while holding eyelids open to ensure flushing of the entire eye surface. Get medical attention.

SKIN: Immediately wash contaminated areas with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear, which cannot be decontaminated. Seek medical attention if symptoms develop or persist.

INHALATION: Remove to fresh air; if breathing is difficult, have trained personnel administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. Get immediate medical attention. (Note: Coughing, sneezing or other symptoms of upper respiratory irritation may serve as a warning of exposure to high airborne concentrations.)

INGESTION: DO NOT INDUCE VOMITING! Rinse mouth with water; give large quantities of water or milk to drink. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Give more liquids. Do not give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.
Respiratory Protection:

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Keep container closed when not in use.
- Use with adequate ventilation and employ respiratory protection when exposure to dust, mist or spray is possible. When handling, wear chemical splash goggles, face shield, rubber gloves and protective clothing. Wash thoroughly after handling or contact - exposure can cause burns which are not immediately painful or visible.

**SUPPLEMENTAL HEALTH INFORMATION:** Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

**SECTION 5 - FIRE & EXPLOSION HAZARDS / FIRE FIGHTING MEASURES**

- **Flash Point:** N/A
- **Flammable Limits:** N/A
- **Extinguishing Media:** This product is non-combustible. Water spray, dry chemical, CO2, or foam may be used in areas where this product is stored.
- **Special Fire Fighting Procedures:** Pressure-demand, self-contained breathing apparatus should be provided for fire fighters in buildings or confined areas where this product is stored.
- **Unusual Fire and Explosion Hazards:** Protective clothing for skin and eye protection should be worn to protect against highly alkaline chemical.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Steps to be taken if material is released or spilled:** If a material is spilled, steps should be taken to contain liquids and prevent discharges to streams or sewer systems. Spills or releases should be reported, if required to the appropriate local, state, and federal regulatory agencies.

**Precautions to be taken in handling and storing:** Do not get into eyes, on skin, or clothing. Avoid breathing dust, mists, or spray. Do not take internally. Use with adequate ventilation and employ respiratory protection when exposure to dust, mist or spray is possible. When handling, wear chemical splash goggles, face shield, rubber gloves and protective clothing. Wash thoroughly after handling or contact - exposure can cause burns which are not immediately painful or visible. Keep container closed when not in use.

**SECTION 7 - HANDLING AND STORAGE**

- **Special Fire Fighting Procedures:** Pressure-demand, self-contained breathing apparatus should be provided for fire fighters in buildings or confined areas where this product is stored.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- **Respiratory Protection:** Respiratory protection is not required under normal use. Use NIOSH/MSHA approved respirators where dust, mist or spray may be generated.
- **Ventilation Required:** Special ventilation is not required under normal use. Use local exhaust ventilation where dust, mist, or spray may be generated.
- **Protective Clothing:**
  - **Eyes:** Wear chemical safety goggles plus full face shield to protect against splashing. Gloves: Chemical resistant gloves should be worn. Gloves may be decontaminated by washing with mild soap and water. Natural and butyl rubber have been suggested. Other clothing and equipment: Impervious protective clothing and chemical resistant safety shoes should be worn to minimize contact. Wash contaminated clothing with soap and water before reuse. Showers and eyewash facilities should be accessible.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance:** White, crystalline powder
- **State:** Solid
- **Odor:** None
- **pH:** 1% solution give a pH of 12.5 - 13.0 typically

**SECTION 10 - STABILITY AND REACTIVITY**

- **Stability:** Stable
- **Incompatibility:** This product is alkaline - avoid contact with acidic materials. Addition of water creates some heat.
- **Hazardous Decomposition:** N/D

**MATERIAL SAFETY DATA SHEET**

MSDS/ADVANTAGE, PAGE 3, SECTION 10 CONT.
**Hazardous Polymerization:** Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Toxicological Information:** N/D

**Chemical Fate Information:** N/D

**SECTION 12 - ECOLOGICAL INFORMATION**

UNK

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Clean up action should be carefully planned and executed. Shipment, storage, and/or disposal of waste materials are regulated and action to handle spilled or released materials must meet the applicable rules. If any questions exist, the appropriate agencies should be contacted to assure proper action being taken.

**SECTION 14 - TRANSPORT INFORMATION**

**Proper Shipping Name:** Corrosive Solids, N.O.S. (contains disodium trioxosilicate pentahydrate)

**Hazard Class:** 8

**UN#:** UN1759

**Packing Group:** III

**Sticker Required:** Corrosive

**Emergency Response Guide Sheet:** 154

**SECTION 15 - REGULATORY INFORMATION**

(Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer’s responsibility to ensure that its’ activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.)

(A simple explanation of each act [legislation] is included in this section. Ingredients listed in these sections means they are governed by that particular act.)

**RCRA - RESOURCE CONSERVATION AND RECOVERY ACT (HAZARDOUS WASTE):** The act that mandated the development of hazardous waste regulations. These regulations can be found in 40 CFR 260-281.

No ingredients listed.

**REPORTABLE QUANTITIES - CERCLA (ACCIDENTAL RELEASE):** The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) identifies a list of substances that have an adverse effect if released to the environment. The Act designates the reportable quantity (RQ) for each of these substances, and the notification requirements for releases or spills. When a specified amount of a chemical is released or spilled, the National Response Center must be notified. This specified amount is the “reportable quantity.” The reportable quantity for each chemical is based on the severity of environmental hazard it presents.

Sodium phosphate, tribasic - 5,000 lbs.

**THRESHOLD PLANNING QUANTITIES (SARA - COMMUNITY RIGHT TO KNOW) EXTREMELY HAZARDOUS SUBSTANCE LIST:** The Extremely Hazardous Substance (EHS) list and planning quantities trigger certain reporting requirements to emergency planning agencies. If your facility has a listed hazardous substance in amounts equal to or greater than the quantities shown on the index, the regulations of 40 CFR 355 and 370 apply to you.

No ingredients listed.

**SARA TITLE III, SECTION 313: EPA** has developed a list of over 320 regulated chemicals and 22 chemical categories. An entry in this section, indicates that a given chemical appears on this list. The entry will consist of a date, which identifies the effective date for reporting; and a “de minimis” amount. This amount, 1% or 0.1%, indicates the minimum amount of a chemical that must be present in a mixture to trigger reporting.

**MATERIAL SAFETY DATA SHEET**

MSDS/ADVANTAGE, PAGE 4, SECTION 15 CONT.
No ingredients listed.

**RISK MANAGEMENT PROGRAM - EPA:** On January 31, 1994, a new EPA rule was finalized. It was required under section 112(r) of the Clean Air Act. It is aimed at preventing accidental chemical releases. This first rule presented a list, composed of three categories: 77 toxic substances, 63 flammable substances, and explosive substances with a mass explosion hazard as listed by DOT. The complete regulation can be found in 40 CFR Part 68 - Chemical Accident Prevention Provisions.

No ingredients listed.

**WHMIS - CANADA:** The Workplace Hazardous Materials Information System (WHMIS) is Canada's version of Hazard Communication. Its provisions closely parallel the US. Regulations.

- Sodium metasilicate - 1%
- Sodium carbonate - 1%

**DOT:** The Department of Transportation (DOT) regulates those substances that present a potential hazard during transportation. There may be labeling, special packaging, and/or placarding required.

- Sodium phosphate, tribasic. Sodium metasilicate anhydrous.

**NFPA - NATIONAL FIRE PROTECTION ASSOCIATION:** The National Fire Protection Association (NFPA) is a nonprofit, educational organization. The goal of NFPA is to promote the science of fire protection and prevention. With this aim, NFPA has developed information on the hazardous properties of many chemicals, which enables the user to come up with safe procedures during the chemicals' use, storage, and transportation. There are three categories of hazards: Health (H), flammability (F), and reactivity (R). Within each category, there are numerical ratings from 0 - 4, with 0 indicating no hazard, 4 indicating severe hazard.

**HMIS RATING:** Health 2 / Fire 1 / Reactivity 1.

**HAZARD COMMUNICATION:** OSHA's Hazard Communication Standard initially went into effect November 1985/May 1986. It is OSHA's most comprehensive worker protection regulation. It provides for information and training for workers encountering chemical exposures in the workplace. The standard requires the use of labels and Material Safety Data Sheets for all regulated chemicals.

**National Toxicology Program (NTP):** A list of carcinogens. No ingredients listed.

**IARC - International Agency For Research On Cancer:** Another carcinogen list. No ingredients listed.

**Subpart Z - OSHA:** (Found at 1910.1000-.1101) If a chemical is on this list, it means there are specific training requirements on the handling, etc. See Section 2.

**Threshold Limit Values: ACGIH:** Threshold limit values (TLVs) which refer to airborne concentrations of substances and represent conditions under which nearly all workers must be repeatedly exposed day after day without adverse effect.

See Section 2.

**Process Safety Management - OSHA:** OSHA established a regulation (1910.119) to monitor and control safety at certain types of industrial facilities. Compliance is triggered by specified quantities of specific chemicals.

No ingredients listed.

**Proposition 65 - California:** Proposition 65 refers to an initiative passed by the California voters in the November 1986 elections. It is the Safe Drinking Water and Toxic Enforcement Act of 1986. One of the components is the listing of chemicals known to cause cancer or reproductive toxicity. Twelve months after a chemical is listed, a person in the course of doing business must warn another person who may consume, come into contact with, or otherwise be exposed to that chemical.

No ingredients listed.

**The New Clean Air Act - Hazardous Air Pollutants:** This rule regulates the emissions of 112 of the organic chemicals identified in the Cats list of 189 hazardous air pollutants.

No ingredients listed.

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SECTION 16 - OTHER INFORMATION

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**AS A GENERAL RULE, PREVENT AND PROTECT THIS PRODUCT FROM UNAUTHORIZED USE**

**FOR INDUSTRIAL USE ONLY !!!!!**

**MATERIAL SAFETY DATA SHEET**

PAGE 4
In accord with the philosophy established by the Occupational Safety and Health Administration's Hazard Communication Final Rule, 1985, this Material Safety Data Sheet has been designed to emphasize the hazardous portions (ingredient[s]) utilized in the total formulation. As a result, the information herein stresses the most hazardous component(s) only. By this approach, we feel better knowledge and awareness should substantially contribute to reduce exposure and injury to workers involved with the use of this product. The information supplied in this document is presented for exactly this purpose. As required by law, this data should be thoroughly read and made available to anyone who may be responsible for handling this material. All data provided relates to the concentrated product as shipped. Actual usage rates and further dilution will, in most cases, greatly reduce, if not eliminate, the potential for worker injury. Any and all chemical products should be handled with extreme care and only by authorized and informed personnel. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this MSDS should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

The information and recommendations provided in this Material Safety Data Sheet have been obtained from data we believe to be reliable. We provide no warranties, expressed or implied, or accept no responsibility for loss associated with the use or handling of this product. This information is offered for your review and consideration. Efforts should be extended to determine the applicability of this product for your specific intended use. We know of no medical condition, other than those noted in this Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

REASON FOR REVISION: Section 1 - Haz. Mat. Reg. number
SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EMBRACE

24-hr. Emergency #: (800) 424-9300

US DOT Hazardous Materials Registration No.: 062504-001-008MO

Commercial & Government Entity (CAGE) Code: 0YCK6

SECTION 2 - INGREDIENTS

Sodium phosphate, tribasic CAS # 7758-29-4

N/E - Treat as "Nuisance Particulates"

Particulates Not Otherwise Classified.

ACGIH TLVs: TWA 10 mg/m3.

OSHA PELs: TWA 15 mg/m3 total dust. 5 mg/m3 - Respirable fraction. See Section 15 for Regulatory Information.

Sodium Carbonate CAS # 497-19-8

N/E - Treat as "Nuisance Particulates"

See above listing.

Triacylglycerol lipase CAS # 9001-62-1

N/E - See Section 11 for Toxicity Info.

Protease CAS # 9014-01-1

Calculated TLV for component:

0.00395 mg/m3 using the following quotation:

(0.00006)(A)/DA = .00006 = ACGIH TLV in mg/m3.

A = Activity of pure crystalline enzyme, 395 KNPU/g.

DA = Declared activity of product (6.0 KNPU/g).

(Note: The exact composition of this product, with respect to the percentages of its reported ingredients and the presence of its non-regulated ingredients [not reported], is proprietary information and is being withheld. In the event of a medical emergency, total disclosure will be made to the proper authorities.)

SECTION 3 - HEALTH HAZARDS IDENTIFICATION

Primary Routes of Entry: Eye/skin contact. Inhalation. Ingestion.

EFFECTS OF OVEREXPOSURE: Extremely irritating to eyes. Continuous contact with skin may cause irritation. May cause sensitization by inhalation in hypersensitive individuals. Avoid inappropriate handling which may result in aerosol/dust generation. Inhalation in susceptible persons may provoke asthma or hay fever. Report situation. Seek medical attention if allergic response exhibited. Ingestion causes irritation to mouth and throat. Ingestion may cause allergic response as with inhalation.

OSHA, IARC, OR NTP CARCINOGEN INFORMATION: No component known to be carcinogenic.

SECTION 4 - FIRST AID MEASURES

EYES: Object is to flush material out of eyes immediately, then seek medical attention. Immediately flush with plenty of water for at least 15 minutes while holding eyelids open to ensure flushing of the entire eye surface. Get medical attention.

SKIN: Immediately wash contaminated areas with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear, which cannot be decontaminated. Seek medical attention if symptoms develop or persist.

INHALATION: Remove to fresh air; if breathing is difficult, have trained personnel administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. Get immediate medical attention. (Note: Coughing, sneezing or other symptoms of upper respiratory irritation may serve as a warning of exposure to high airborne concentrations.)
INGESTION: DO NOT INDUCE VOMITING! Rinse mouth with water; give large quantities of water or milk to drink. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Give more liquids. Do not give anything by mouth to an unconscious or drowsy person. Get immediate medical attention. (Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician.)

SUPPLEMENTAL HEALTH INFORMATION: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

SECTION 5 - FIRE & EXPLOSION HAZARDS / FIRE FIGHTING MEASURES

Flash Point: Non-flammable
Flammable Limits: N/A
Extinguishing Media: As appropriate for surrounding fire.

Special Fire Fighting Procedures: This product is non-flammable. However, hazardous decomposition and combustion products may be formed in a fire situation. Cool exposed containers with water spray to prevent overheating.
Unusual Fire and Explosion Hazards: Respiratory and eye protection are required for all firefighting personnel. Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Spills should be contained and scooped up and placed in approved containers for disposal. Neutralize residue with dilute acid, flush spill area with water followed by liberal covering of sodium bicarbonate. All clean-up material should be removed and await proper treatment or disposal. Spills on areas other than pavement, e.g., dirt or sand, may be handled by removing the affected soils and placing in approved containers. Persons performing clean-up work should wear adequate personal protective equipment and clothing. Spills or releases should be reported if required, to the appropriate agencies. Dispose of wash water and spill by-products according to all Federal, State and local regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions to be taken in handling and storing: Do not get into eyes, on skin or clothing. Avoid breathing dust, mists, or spray. Do not take internally. Use with adequate ventilation and employ respiratory protection when exposure to dust, mist or spray is possible. When handling, wear chemical splash goggles, face shield, rubber gloves and protective clothing. Keep container closed.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Where open handling cannot be avoided, respiratory passages should be covered for protection.
Ventilation Required: This product may cause sensitization by inhalation in hypersensitive individuals. Therefore avoid handling which may result in dust generation. Provide for good ventilation of the work area, when handling this product.

Additional Protective Measures: Safety shower, eye bath and washing facilities should be available and easily accessible.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, granular
State: Solid
Odor: No distinct odor.
Solubility in Water: Complete
pH: (1 % solution) 10.0 - 10.5 typical

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

MSDS/EMBRACE, PAGE 3, SECTION 10 CONT.
**Incompatibility:** Oxides of phosphorus

**Hazardous Decomposition:** UNK

**Hazardous Polymerization:** Will not occur.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Toxicological Information:** Sodium phosphate, tribasic - Eyes - mild irritant (rabbit) FMC Study 186-917, dated 1986. Skin - non-irritating FMC Study 188-1047, dated 1988. Inhalation - no significant hazard expected. LD(50) > 0.39 mg/L (rat, 4 hour). FMC Study 188-1011. Ingestion - no significant hazard. LD(50) (rat) 6.5 g/kg. RTECS, 1980.

Sodium carbonate - Eyes - severe irritation Toxicology 23.281-291, 1982. Ingestion - LD(50) (rat) 2.8 gm/kg. Tetrasodium pyrophosphate: Skin: LD50>2000 mg/kg (rabbit). Ingestion: LD(50) = 4000 mg/kg (rat).

Triacylglycerol lipase - Oral rat LD-50> 2g/kg (rat).

**Chemical Fate Information:** Sodium carbonate - ingestion of large amounts may cause vomiting, diarrhea, circulatory collapse and death.

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**SECTION 12 - ECOLOGICAL INFORMATION**

Inorganic phosphates in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

Appropriate disposal will depend on the nature of each waste material and should be performed by competent and properly permitted contractors. Ensure that all responsible Federal, State, and local agencies received proper notification of spill and disposal of waste, if required.

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**SECTION 14 - TRANSPORT INFORMATION**

**Proper Shipping Name:** Cleaning compound

**Hazard Class:** N/A

**UN#:** N/A

**Packing Group:** N/A

**Sticker Required:** N/A

**Emergency Response Guidesheet:** N/A

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**SECTION 15 - REGULATORY INFORMATION**

(Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer’s responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.)

(A simple explanation of each act [legislation] is included in this section. Ingredients listed in these sections means they are governed by that particular act.)

**RCRA - RESOURCE CONSERVATION AND RECOVERY ACT (HAZARDOUS WASTE):** The act that mandated the development of hazardous waste regulations. These regulations can be found in 40 CFR 260-281.

Appropriate disposal will depend on the nature of each waste material and should be performed by competent and properly permitted contractors. Ensure that all responsible Federal, State, and local agencies received proper notification of spill and disposal of waste, if required.

**MSDS/EMBRACE, PAGE 4, SECTION 15 CONT.**
REPORTABLE QUANTITIES - CERCLA (ACCIDENTAL RELEASE): The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) identifies a list of substances that have an adverse effect if released to the environment. The Act designates the reportable quantity (RQ) for each of these substances, and the notification requirements for releases or spills. When a specified amount of a chemical is released or spilled, the National Response Center must be notified. This specified amount is the "reportable quantity." The reportable quantity for each chemical is based on the severity of environmental hazard it presents.

Sodium phosphate tribasic CAS # 7758-29-4 - 5,000 lbs.

THRESHOLD PLANNING QUANTITIES (SARA - COMMUNITY RIGHT TO KNOW) EXTREMELY HAZARDOUS SUBSTANCE LIST: The Extremely Hazardous Substance (EHS) list and planning quantities trigger certain reporting requirements to emergency planning agencies. If your facility has a listed hazardous substance in amounts equal to or greater than the quantities shown on the index, the regulations of 40 CFR 355 and 370 apply to you.

No ingredients listed.

SARA TITLE III, SECTION 313: EPA has developed a list of over 320 regulated chemicals and 22 chemical categories. An entry in this section, indicates that a given chemical appears on this list. The entry will consist of a date, which identifies the effective date for reporting; and a "de minimis" amount. This amount, 1% or 0.1%, indicates the minimum amount of a chemical that must be present in a mixture to trigger reporting.

No ingredients listed.

RISK MANAGEMENT PROGRAM - EPA: On January 31, 1994, a new EPA rule was finalized. It was required under section 112(r) of the Clean Air Act. It is aimed at preventing accidental chemical releases. This first rule presented a list, composed of three categories: 77 toxic substances, 63 flammable substances, and explosive substances with a mass explosion hazard as listed by DOT. The complete regulation can be found in 40 CFR Part 68 - Chemical Accident Prevention Provisions.

No ingredients listed.


Sodium carbonate,

DOT: The Department of Transportation (DOT) regulates those substances that present a potential hazard during transportation. There may be labeling, special packaging, and/or placarding required.

sodium phosphate, tribasic CAS # 7601-54-9

Process Safety Management - OSHA: OSHA established a regulation (1910.119) to monitor and control safety at certain types of industrial facilities. Compliance is triggered by specified quantities of specific chemicals.

No ingredients listed.

Proposition 65 - California: Proposition 65 refers to an initiative passed by the California voters in the November 1986 elections. It is the Safe Drinking Water and Toxic Enforcement Act of 1986. One of the components is the listing of chemicals known to cause cancer or reproductive toxicity. Twelve months after a chemical is listed, a person in the course of doing business must warn another person who may consume, come into contact with, or otherwise be exposed to that chemical.

No ingredients listed.

The New Clean Air Act - Hazardous Air Pollutants: This rule regulates the emissions of 112 of the organic chemicals identified in the Cats list of 189 hazardous air pollutants.

No ingredients listed.

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SECTION 16 - OTHER INFORMATION
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This Material Safety Data Sheet has been prepared in accordance with OSHA 1910.1200(g) Hazard Communications Standard, Material Safety Data Sheets and American National Standards Institute Z400.1.

AS A GENERAL RULE, PREVENT AND PROTECT THIS PRODUCT FROM UNAUTHORIZED USE
FOR INDUSTRIAL USE ONLY !!!!!!

END OF REPORT

MSDS/EMBRACE, PAGE 5, SECTION 16 CONT.

NAME: Robert C. Jaudon            DATE ISSUED: 5/20/02
In accord with the philosophy established by the Occupational Safety and Health Administration's Hazard Communication Final Rule, 1985, this Material Safety Data Sheet has been designed to emphasize the hazardous portions (ingredient[s]) utilized in the total formulation. As a result, the information herein stresses the most hazardous component(s) only. By this approach, we feel better knowledge and awareness should substantially contribute to reduce exposure and injury to workers involved with the use of this product. The information supplied in this document is presented for exactly this purpose. As required by law, this data should be thoroughly read and made available to anyone who may be responsible for handling this material. All data provided relates to the concentrated product as shipped. Actual usage rates and further dilution will, in most cases, greatly reduce, if not eliminate, the potential for worker injury. Any and all chemical products should be handled with extreme care and only by authorized and informed personnel. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this MSDS should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

The information and recommendations provided in this Material Safety Data Sheet have been obtained from data we believe to be reliable. We provide no warranties, expressed or implied, or accept no responsibility for loss associated with the use or handling of this product. This information is offered for your review and consideration. Efforts should be extended to determine the applicability of this product for your specific intended use. We know of no medical condition, other than those noted in this Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

REASON FOR REVISION: Section 1 - Haz. Mat. Reg. number
MATERIAL SAFETY DATA SHEET

FOR CHEMICAL EMERGENCY Spill, Leak, Fire, Exposure or Accident CALL CHEMTREC DAY OR NIGHT 800-424-9300

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EMBRACE
24-hr. Emergency #: (800) 424-9300
US DOT Hazardous Materials Registration No.:062504-001-008MO
Commercial & Government Entity (CAGE) Code: 0YCK6

CHEMICAL NAMES & SYNONYMS: N/A
FORMULA: Proprietary
CHEMICAL FAMILY:
SUPPLIER'S NAME: Fabriclean Supply of Kansas, LC
SUPPLIER'S ADDRESS: 14400 W. 97th Terrace
SUPPLIER'S CITY, STATE, ZIP: Lenexa, KS 66215
SUPPLIER'S TELEPHONE: (800) 832-0096

SECTION 2 - INGREDIENTS

INGREDIENTS PERCENT ADOPTED VALUES
Sodium phosphate, tribasic CAS # 7758-29-4 N/E - Treat as "Nuisance Particulates"
Particulates Not Otherwise Classified.
ACGIH TLVs: TWA 10 mg/m3.
OSHA PELs: TWA 15 mg/m3 total dust. 5 mg/m3 - Respirable fraction. See Section 15 for Regulatory Information.

Sodium Carbonate CAS # 497-19-8 N/E - Treat as "Nuisance Particulates"
See above listing.

Triacylglycerol lipase CAS # 9001-62-1 N/E - See Section 11 for Toxicity Info.

Protease CAS # 9014-01-1 Calculated TLV for component:
0.00395 mg/m3 using the following quotation:
(0.00006)(A)/DA = .00006 = ACGIH TLV in mg/m3.
A = Activity of pure crystalline enzyme, 395 KNPU/g.
DA = Declared activity of product (6.0 KNPU/g).

(Note: The exact composition of this product, with respect to the percentages of its' reported ingredients and the presence of its' non-regulated ingredients [not reported], is proprietary information and is being withheld. In the event of a medical emergency, total disclosure will be made to the proper authorities.)

SECTION 3 - HEALTH HAZARDS IDENTIFICATION

Primary Routes of Entry: Eye/skin contact. Inhalation. Ingestion.

EFFECTS OF OVEREXPOSURE: Extremely irritating to eyes. Continuous contact with skin may cause irritation. May cause sensitization by inhalation in hypersensitive individuals. Avoid inappropriate handling which may result in aerosol/dust generation. If inhaled, remove from contaminated area to fresh air. Inhalation in susceptible persons may provoke asthma or hay fever. Report situation. Seek medical attention if allergic response exhibited. Ingestion causes irritation to mouth and throat. Ingestion may cause allergic response as with inhalation.

OSHA, IARC, OR NTP CARCINOGEN INFORMATION: No component known to be carcinogenic.

SECTION 4 - FIRST AID MEASURES

EYES: Object is to flush material out of eyes immediately, then seek medical attention. Immediately flush with plenty of water for at least 15 minutes while holding eyelids open to ensure flushing of the entire eye surface. Get medical attention.

SKIN: Immediately wash contaminated areas with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear, which cannot be decontaminated. Seek medical attention if symptoms develop or persist.

INHALATION: Remove to fresh air; if breathing is difficult, have trained personnel administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. Get immediate medical attention. (Note: Coughing, sneezing or other symptoms of upper respiratory irritation may serve as a warning of exposure to high airborne concentrations.)

MSDS/EMBRACE, PAGE 2, SECTION 4 CONT.
INGESTION: DO NOT INDUCE VOMITING! Rinse mouth with water; give large quantities of water or milk to drink. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Give more liquids. Do not give anything by mouth to an unconscious or drowsy person. Get immediate medical attention. (Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician.)

SUPPLEMENTAL HEALTH INFORMATION: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

SECTION 5 - FIRE & EXPLOSION HAZARDS / FIRE FIGHTING MEASURES

Flash Point: Non-flammable

Flammable Limits: N/A

Extinguishing Media: As appropriate for surrounding fire.

Special Fire Fighting Procedures: This product is non-flammable. However, hazardous decomposition and combustion products may be formed in a fire situation. Cool exposed containers with water spray to prevent overheating.

Unusual Fire and Explosion Hazards: Respiratory and eye protection are required for all firefighting personnel. Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Spills should be contained and scooped up and placed in approved containers for disposal. Neutralize residue with dilute acid, flush spill area with water followed by liberal covering of sodium bicarbonate. All clean-up material should be removed and await proper treatment or disposal. Spills on areas other than pavement, e.g., dirt or sand, may be handled by removing the affected soils and placing in approved containers. Persons performing clean-up work should wear adequate personal protective equipment and clothing. Spills or releases should be reported if required, to the appropriate agencies. Dispose of wash water and spill by-products according to all Federal, State and local regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions to be taken in handling and storing: Do not get into eyes, on skin or clothing. Avoid breathing dust, mists, or spray. Do not take internally. Use with adequate ventilation and employ respiratory protection when exposure to dust, mist or spray is possible. When handling, wear chemical splash goggles, face shield, rubber gloves and protective clothing. Keep container closed.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Where open handling cannot be avoided, respiratory passages should be covered for protection.

Ventilation Required: This product may cause sensitization by inhalation in hypersensitive individuals. Therefore avoid handling which may result in dust generation. Provide for good ventilation of the work area, when handling this product.


Additional Protective Measures: Safety shower, eye bath and washing facilities should be available and easily accessible.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, granular

State: Solid

Odor: No distinct odor.

Solubility in Water: Complete

pH: (1 % solution) 10.0 - 10.5 typical

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

MSDS/EMBRACE, PAGE 3, SECTION 10 CONT.
Incompatibility: Oxides of phosphorus

Hazardous Decomposition: UNK

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological Information: Sodium phosphate, tribasic - Eyes - mild irritant (rabbit) FMC Study 186-917, dated 1986. Skin - non-irritating FMC Study 188-1047, dated 1988. Inhalation - no significant hazard expected. LD(50) > 0.39 mg/L (rat, 4 hour). FMC Study 188-1011. Ingestion - no significant hazard. LD(50) (rat) 6.5 g/kg. RTECS, 1980.

Sodium carbonate - Eyes - severe irritation Toxicology 23.281-291, 1982. Ingestion - LD(50) (rat) 2.8 gm/kg. Tetrasodium pyrophosphate: Skin: LD50>2000 mg/kg (rabbit). Ingestion: LD(50) = 4000 mg/kg (rat).

Triacylglycerol lipase - Oral rat LD-50> 2g/kg (rat).

SECTION 12 - ECOLOGICAL INFORMATION

Inorganic phosphates in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

SECTION 13 - DISPOSAL CONSIDERATIONS

Appropriate disposal will depend on the nature of each waste material and should be performed by competent and properly permitted contractors. Ensure that all responsible Federal, State, and local agencies received proper notification of spill and disposal of waste, if required.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Cleaning compound

Hazard Class: N/A

UN#: N/A

Packing Group: N/A

Sticker Required: N/A

Emergency Response Guidesheet: N/A

SECTION 15 - REGULATORY INFORMATION

(Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer’s responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.)

(A simple explanation of each act [legislation] is included in this section. Ingredients listed in these sections mean they are governed by that particular act.)

**RCRA - RESOURCE CONSERVATION AND RECOVERY ACT (HAZARDOUS WASTE):** The act that mandated the development of hazardous waste regulations. These regulations can be found in 40 CFR 260-281.

Appropriate disposal will depend on the nature of each waste material and should be performed by competent and properly permitted contractors. Ensure that all responsible Federal, State, and local agencies received proper notification of spill and disposal of waste, if required.

**MSDS/EMBRACE, PAGE 4, SECTION 15 CONT.**
REPORTABLE QUANTITIES - CERCLA (ACCIDENTAL RELEASE): The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) identifies a list of substances that have an adverse effect if released to the environment. The Act designates the reportable quantity (RQ) for each of these substances, and the notification requirements for releases or spills. When a specified amount of a chemical is released or spilled, the National Response Center must be notified. This specified amount is the "reportable quantity." The reportable quantity for each chemical is based on the severity of environmental hazard it presents.

Sodium phosphate tribasic CAS # 7758-29-4 - 5,000 lbs.

THRESHOLD PLANNING QUANTITIES (SARA - COMMUNITY RIGHT TO KNOW) EXTREMELY HAZARDOUS SUBSTANCE LIST: The Extremely Hazardous Substance (EHS) list and planning quantities trigger certain reporting requirements to emergency planning agencies. If your facility has a listed hazardous substance in amounts equal to or greater than the quantities shown on the index, the regulations of 40 CFR 355 and 370 apply to you.

No ingredients listed.

SARA TITLE III, SECTION 313: EPA has developed a list of over 320 regulated chemicals and 22 chemical categories. An entry in this section, indicates that a given chemical appears on this list. The entry will consist of a date, which identifies the effective date for reporting; and a "de minimis" amount. This amount, 1% or 0.1%, indicates the minimum amount of a chemical that must be present in a mixture to trigger reporting.

No ingredients listed.

RISK MANAGEMENT PROGRAM - EPA: On January 31, 1994, a new EPA rule was finalized. It was required under section 112(r) of the Clean Air Act. It is aimed at preventing accidental chemical releases. This first rule presented a list, composed of three categories: 77 toxic substances, 63 flammable substances, and explosive substances with a mass explosion hazard as listed by DOT. The complete regulation can be found in 40 CFR Part 68 - Chemical Accident Prevention Provisions.

No ingredients listed.


Sodium carbonate,

DOT: The Department of Transportation (DOT) regulates those substances that present a potential hazard during transportation. There may be labeling, special packaging, and/or placarding required.

sodium phosphate, tribasic CAS # 7601-54-9

Process Safety Management - OSHA: OSHA established a regulation (1910.119) to monitor and control safety at certain types of industrial facilities. Compliance is triggered by specified quantities of specific chemicals.

No ingredients listed.

Proposition 65 - California: Proposition 65 refers to an initiative passed by the California voters in the November 1986 elections. It is the Safe Drinking Water and Toxic Enforcement Act of 1986. One of the components is the listing of chemicals known to cause cancer or reproductive toxicity. Twelve months after a chemical is listed, a person in the course of doing business must warn another person who may consume, come into contact with, or otherwise be exposed to that chemical.

No ingredients listed.

The New Clean Air Act - Hazardous Air Pollutants: This rule regulates the emissions of 112 of the organic chemicals identified in the Cuts list of 189 hazardous air pollutants.

No ingredients listed.
In accord with the philosophy established by the Occupational Safety and Health Administration’s Hazard Communication Final Rule, 1985, this Material Safety Data Sheet has been designed to emphasize the hazardous portions (ingredient[s]) utilized in the total formulation. As a result, the information herein stresses the most hazardous component(s) only. By this approach, we feel better knowledge and awareness should substantially contribute to reduce exposure and injury to workers involved with the use of this product. The information supplied in this document is presented for exactly this purpose. As required by law, this data should be thoroughly read and made available to anyone who may be responsible for handling this material. All data provided relates to the concentrated product as shipped. Actual usage rates and further dilution will, in most cases, greatly reduce, if not eliminate, the potential for worker injury. Any and all chemical products should be handled with extreme care and only by authorized and informed personnel. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this MSDS should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

The information and recommendations provided in this Material Safety Data Sheet have been obtained from data we believe to be reliable. We provide no warranties, expressed or implied, or accept no responsibility for loss associated with the use or handling of this product. This information is offered for your review and consideration. Efforts should be extended to determine the applicability of this product for your specific intended use. We know of no medical condition, other than those noted in this Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

REASON FOR REVISION: Section 1 - Haz. Mat. Reg. number